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B1 → 1. (Amended) A gaming machine comprising:
dividend determining means for determining a dividend to be
paid to a bettor who has won a lottery with a predetermined
probability, said lottery including a plurality of objects with
predetermined probabilities of winning, and for indicating the
dividend to the bettor;

display means for providing an execution result executed by
said dividend determining means to the bettor,

said dividend determining means comprising:

setting means for setting a target payout rate and [the] a
probability of winning of each of the objects and for setting
odds on each of the objects based on the target payout rate and
the probability of winning;

ordering means for arranging the objects in order of the
probability of winning;

first correction means or approximately correcting the odds
on the object in a highest place to odds with a predetermined
number of digits, correcting the probability of winning of the
object in the highest place based on the corrected odds,
reflecting the difference between an uncorrected probability of
winning and the corrected probability of subsequent place,
redetermining the odds on the object in the subsequent place
based on the corrected probability of winning of the object in

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the subsequent place, and repetitively performing a whole processing for the objects in all places; and

second correction means for approximately correcting the predetermined odds on the object in last place to odds with a predetermined number of digits, redetermining the probability of winning based on the approximated odds, and again reflecting the difference between the probability of winning and the redetermined probability of winning at predetermined ratios in the probabilities of winning of all the objects, and

wherein said display means displaying the final odds obtained by said first and second correction means.

5. (Amended) A gaming machine comprising:

dividend determining means for determining a dividend to be paid to a bettor who has won a lottery with a predetermined probability, said lottery including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor;

display means for providing an execution result executed by said dividend determining means to the bettor,

said dividend determining means comprising:

setting means for setting a target payout rate and a probability of winning of each of the objects and for setting

provisional odds on each of the objects based on the target payout rate and the probability of winning;

ordering means for arranging the objects in order;

first correction means for approximately correcting the odds on the object in first place to odds with a predetermined number of digits, correcting the probability of winning of the object in the first place based on the corrected odds, reflecting the difference between an uncorrected probability of winning and the corrected probability of winning of the object in a subsequent place, redetermining the odds on the object in the subsequent place based on the corrected probability of winning of the object in the subsequent place, and repetitively performing a whole processing for the objects in all places; and

second correction means for approximately correcting the redetermined odds on the object in last place to odds with a predetermined number of digits, redetermining the probability of winning based on the approximated odds, and again reflecting the difference between the probability of winning and the redetermined probability of winning at predetermined ratios in the probabilities of winning of all the objects, and

wherein said display means displaying the final odds obtained by said first and second correction means.

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6. (Amended) An operation method for a gaming machine comprising dividend determining means for determining a dividend to be paid to a bettor who has won a bet on a race with a predetermined probability, the race including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor, and display means for providing an execution result executed by said dividend determining means,

said operation method comprising the steps of:

setting a target payout rate and a probability of winning of each of the objects and setting odds on each of the objects based on the target payout rate and the probability of winning;

rearranging data on the objects in descending order of the probability of winning; and

performing correction processing with said gaming machine, said correction processing including the steps of:

approximately correcting the odds on the object with a highest probability of winning to numeric data with a predetermined number of digits;

correcting the probability of winning based on the corrected odds;

obtaining the difference between the uncorrected probability of winning and the corrected probability of winning;

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reflecting the difference in the probability of winning and
in the odds on the object in the subsequent place;

repetitively performing the whole processing until the
object with the lowest probability of winning is processed;

allocating the difference in the probabilities of winning
of the last object among the corrected probabilities of winning
of the objects at predetermined ratios; and

displaying the final odds obtained by the correction
processing on said display means.

7. (Amended) An operation method for a gaming machine
comprising dividend determining means for determining a dividend
to be paid to a bettor who has won a bet on a lottery with a
predetermined probability in straight betting and quinella
betting, said lottery including a plurality of objects with
predetermined probabilities of winning, and for indicating the
dividend to the bettor, and display means for providing an
execution result executed by said dividend determining means,

said operation method comprising the steps of:

setting a target payout rate and a probability of winning
of each of straight bets and quinella bets and setting odds on
each of the straight bets and the quinella bets based on the
target payout rate and the probability of winning;

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rearranging data on the quinella bets in descending order of the probability of winning;

approximately correcting the odds on the quinella bet with a highest probability of winning to numeric data with a predetermined number of digits, correcting the probability of winning based on the corrected odds, obtaining the difference between an uncorrected probability of winning and the corrected probability of winning, reflecting the difference in the probability of winning and in the odds on the quinella bet in a subsequent place, repetitively performing a whole processing until the quinella bet with the lowest probability of winning is corrected, and allocating the difference in the probabilities of winning of the last quinella bet in accordance with the corrected probabilities of winning of the quinella bets;

reflecting the corrected probabilities of winning of the quinella bets in the probabilities of winning of the straight bets and redetermining the odds on the straight bets;

rearranging data on the straight bets in descending order of the probability of winning; and

performing correction processing with said gaming machine, said correction processing including the steps of:

approximately correcting the odds on the straight bet with the highest probability of winning to numeric data with a predetermined number of digits;

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correcting the probability of winning based on the corrected odds;

obtaining the difference between the uncorrected probability of winning and the corrected probability of winning;

reflecting the difference in the probability of winning and in the odds on the straight bet in the subsequent place;

repetitively performing the whole processing until the straight bet with the lowest probability of winning is corrected;

allocating the difference in the probabilities of winning of the last straight bet in accordance with the corrected probabilities of winning of the straight bets, and

displaying the final odds obtained by the correction processing on said display means.

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9. (Amended) An operation method for a gaming machine comprising dividend determining means for determining a dividend to be paid to a bettor who has won a bet on the race with a predetermined probability, the race including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor, and display means for providing an execution result executed by said dividend determining means,

said operation method comprising the steps of:

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setting a target payout rate and a probability of winning
of each of the objects and setting odds on each of the objects
based on the target payout rate and the probability of winning;

rearranging data on the objects in order; and

performing correction processing with said gaming machine,
said correction processing including the steps of:

approximately correcting the odds on the object in first
place to numeric data with a predetermined number of digits;

correcting the probability of winning based on the
corrected odds;

obtaining the difference between the uncorrected
probability of winning and the corrected probability of winning;

reflecting the difference in the probability of winning and
in the odds on the object in the subsequent place;

repetitively performing the whole processing until the
object in the last place is processed; and

allocating the difference in the probabilities of winning
of the last object in accordance with the corrected
probabilities of winning of the objects, and

displaying the final odds obtained by the correction
processing on said display means.
